

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : JAPAN RADIO CO LTD

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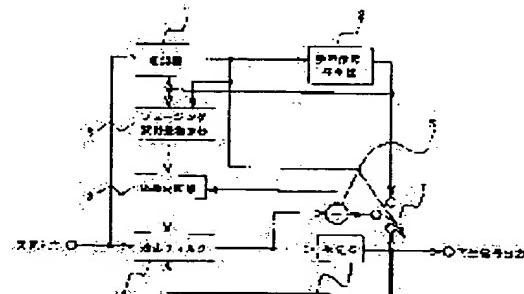
(72)Inventor : YUGAWA TAKAHIRO

(54) ADAPTIVE EQUALIZER

(57)Abstract:

PURPOSE: To prevent an equalizing characteristic from being deteriorated and to obtain an effective characteristic by changing the follow-up characteristic of an adaptive filter in accordance with fading variation estimated from an output of a known signal detecting correlator.

CONSTITUTION: A signal obtained by periodically inserting a known signal into a transmitting signal is inputted to a correlator 1 and the adaptive filter 4 and the correlator 1 executes correlation operation between the same reference signal as the known signal and the received input signal, an error detecting part 5 obtains an error between a correlation result and an output from the filter 4 which is obtained by processing the received input signal and a coefficient updating part 3 updates the coefficient of the filter 4 in accordance with the error. A fading variation estimator 8 estimates fading variation generated due to variation in the moving speed of a mobile object by the output of the correlator 1 without requiring external information and the updating part 3 changes follow-up algorithm to a value matched with the variation based upon the estimated variation and executes coefficient updating operation.



LEGAL STATUS

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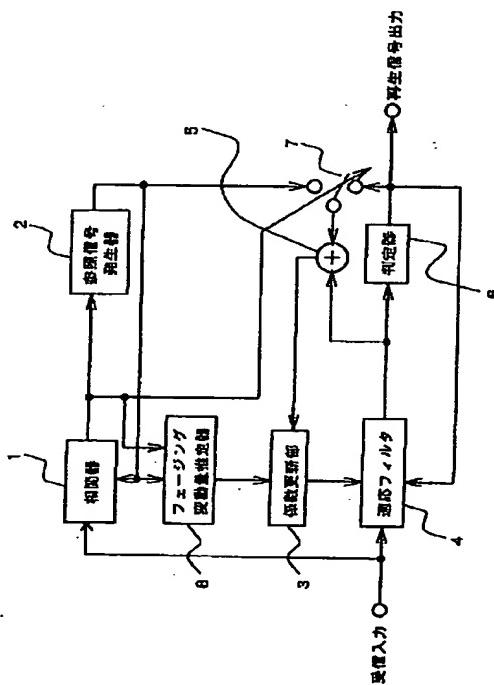
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(54)【発明の名称】 適応等化器

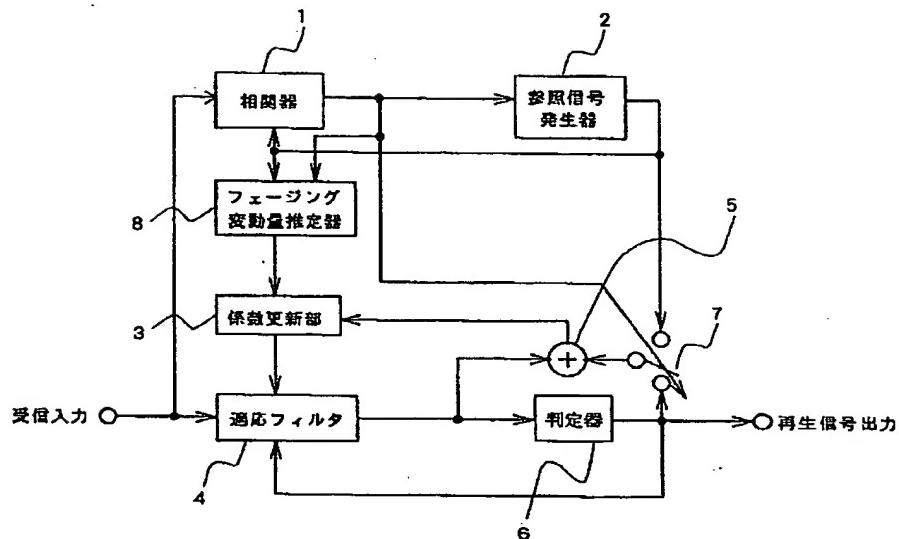
(57)【要約】

【目的】 従来のこの種の適応等化器においては、移動体の移動速度の変動によるフェージング変動量を常に最大の変動量があるとして追従特性を設定しているため、受信特性が劣化する。これを改善する。

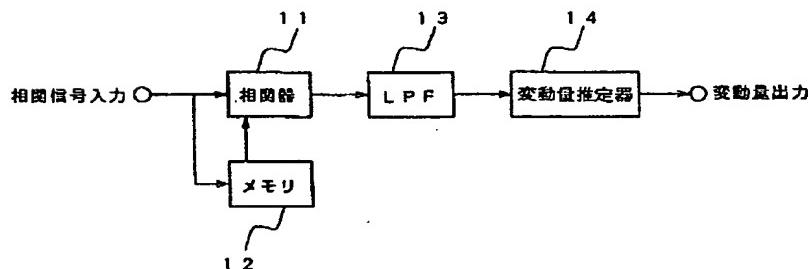
【構成】 移動速度の変動により生じるフェージング変動量を外部からの情報を必要とすることなく推定するフェージング変動量推定手段を付加し、この出力をパラメータとして適応フィルタの追従特性を変化させることとした。



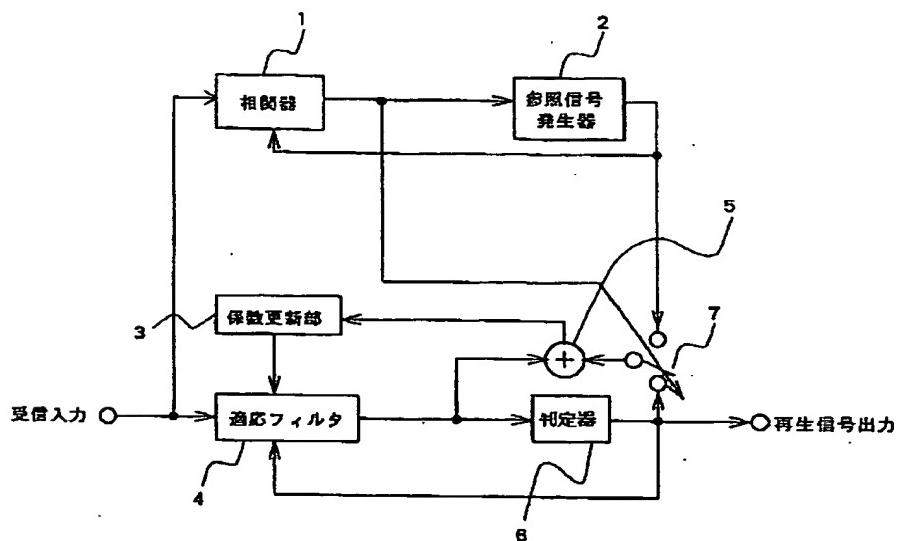
【図1】



【図3】



【図4】



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